

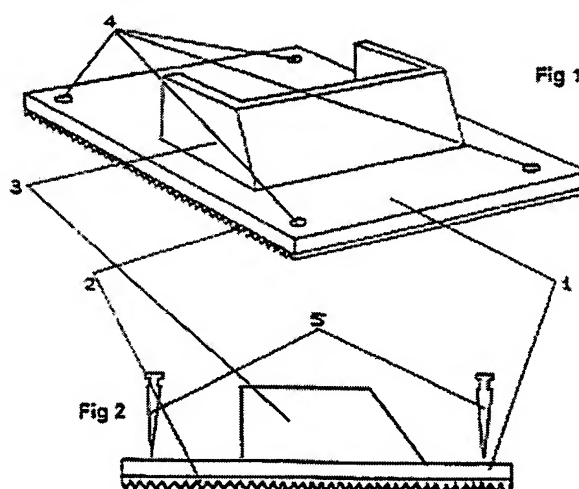
Ladder support

Patent number: GB2286621
Publication date: 1995-08-23
Inventor: MCCOLGAN PETER ANTHONY GERARD; SWAIN MAXWELL
Applicant: MCCOLGAN PETER ANTHONY GERARD (GB);; SWAIN MAXWELL (GB)
Classification:
- international: E06C7/46
- european: E06C7/46
Application number: GB19940002588 19940210
Priority number(s): GB19940002588 19940210

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Abstract of GB2286621

A ladder support comprises a base plate (1) with a three sided frame (3) and a non slip base (2) for use when using a ladder. When a ladder is to be used the plate is placed with the open side of the three sided frame (3) facing the surface upon which the top of the ladder is to be rested. The ladder is then inserted and rested on the surface. Pins (5) can be inserted into soft surfaces, such as lawns, through holes in the base plate (4). When the ladder has to be moved it can be removed from the three sided frame and the plate repositioned.



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(71) Applicant(s)

Peter Anthony Gerard McColgan
9 Chartwell Park, Four Winds, BELFAST, BT8 4NG,
United Kingdom

Maxwell Swain
9 The Brackens, Carnmoney, NEWTOWNABBEY,
Co Antrim, United Kingdom

(72) Inventor(s)

Peter Anthony Gerard McColgan
Maxwell Swain

(74) Agent and/or Address for Service

Peter Anthony Gerard McColgan
9 Chartwell Park, Four Winds, BELFAST, BT8 4NG,
United Kingdom

(51) INT CL⁶

E06C 7/46

(52) UK CL (Edition N)

E1S SLW2

(56) Documents Cited

GB 2272475 A GB 2216168 A GB 2160570 A

GB 2057040 A US 5078231 A

"Do It Yourself" magazine, July 1970, page 83

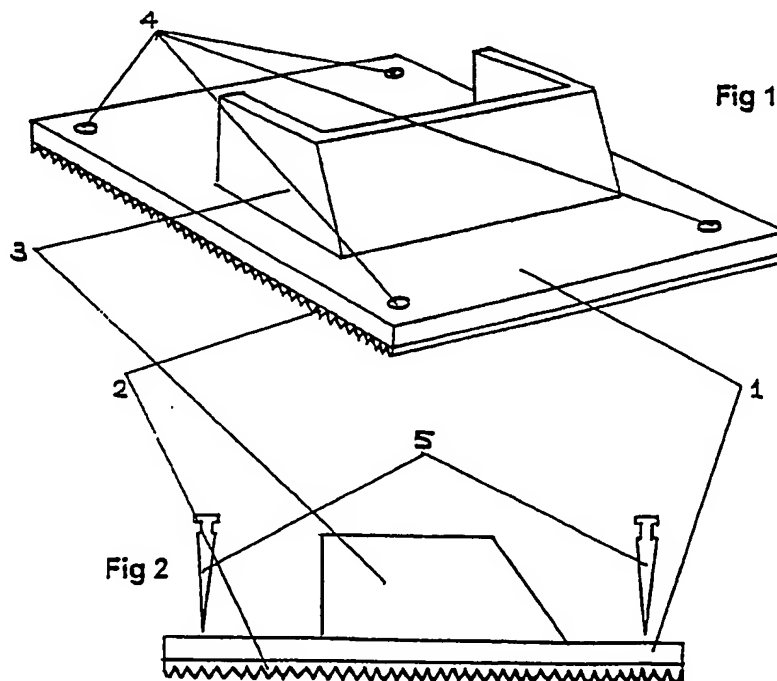
(58) Field of Search

UK CL (Edition M) E1S SLW2

INT CL⁵ E06C

(54) Ladder support

(57) A ladder support comprises a base plate (1) with a three sided frame (3) and a non slip base (2) for use when using a ladder. When a ladder is to be used the plate is placed with the open side of the three sided frame (3) facing the surface upon which the top of the ladder is to be rested. The ladder is then inserted and rested on the surface. Pins (5) can be inserted into soft surfaces, such as lawns, through holes in the base plate (4). When the ladder has to be moved it can be removed from the three sided frame and the plate repositioned.



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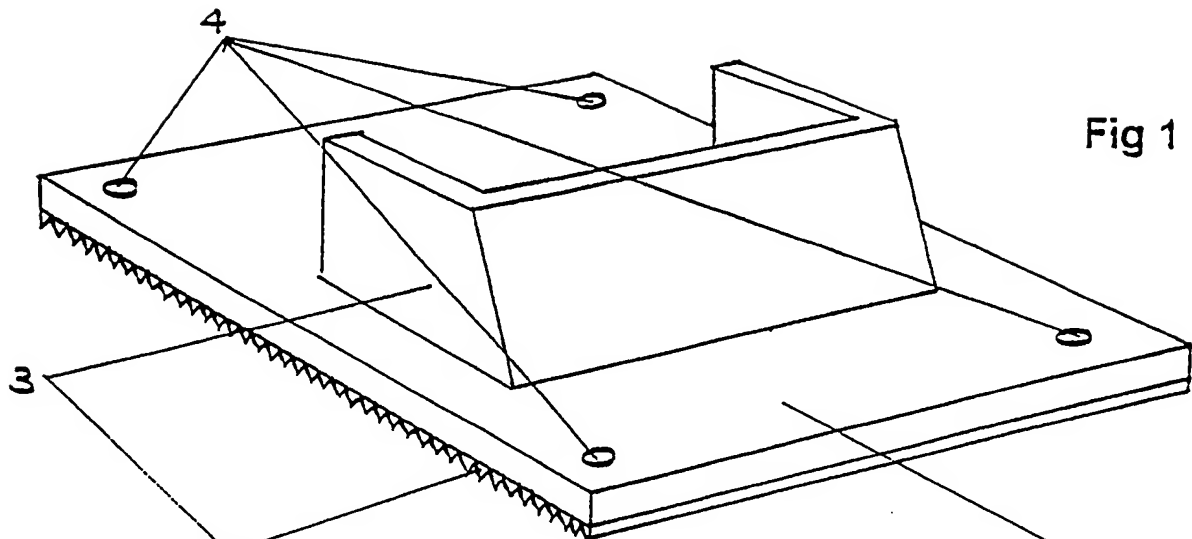


Fig 1

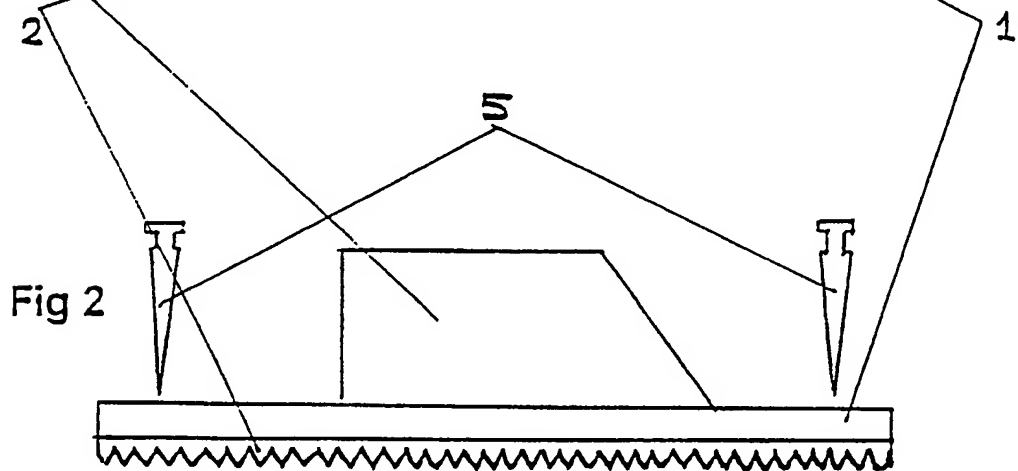


Fig 2

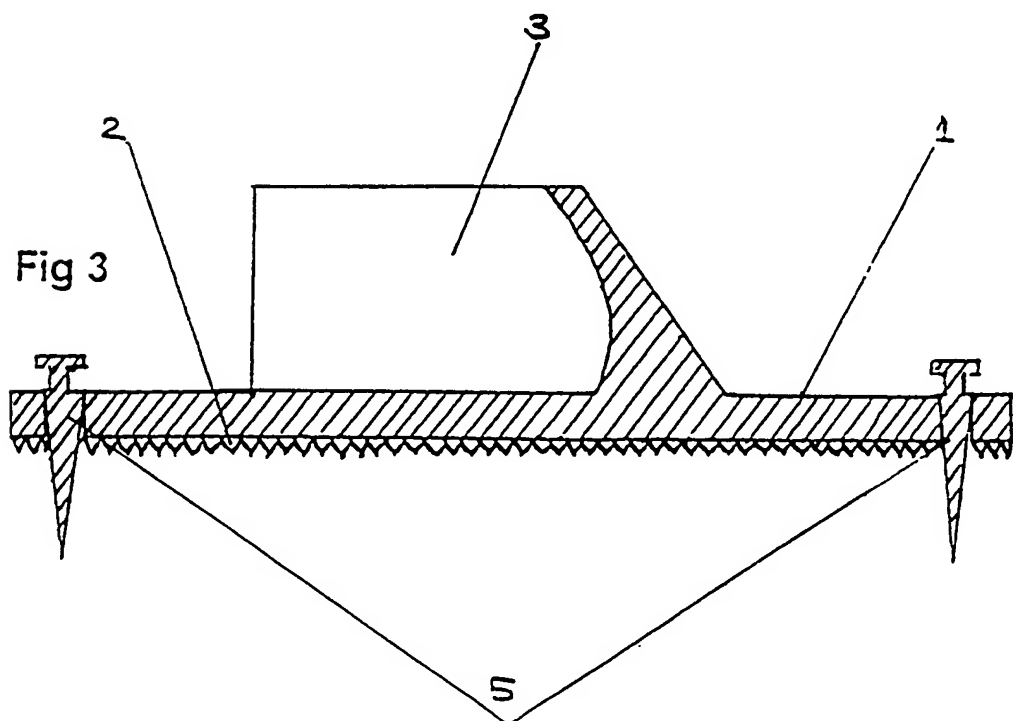


Fig 3

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Peter Anthony Gerard McColgan
9 Chartwell Park, Four Winds, BELFAST, BT8 4NG,
United Kingdom

Maxwell Swain
9 The Brackens, Carnmoney, NEWTOWNABBEY,
Co Antrim, United Kingdom

(72) Inventor(s)

Peter Anthony Gerard McColgan
Maxwell Swain

(74) Agent and/or Address for Service

Peter Anthony Gerard McColgan
9 Chartwell Park, Four Winds, BELFAST, BT8 4NG,
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(51) INT CL⁶
E06C 7/46

(52) UK CL (Edition N)
E1S SLW2

(56) Documents Cited

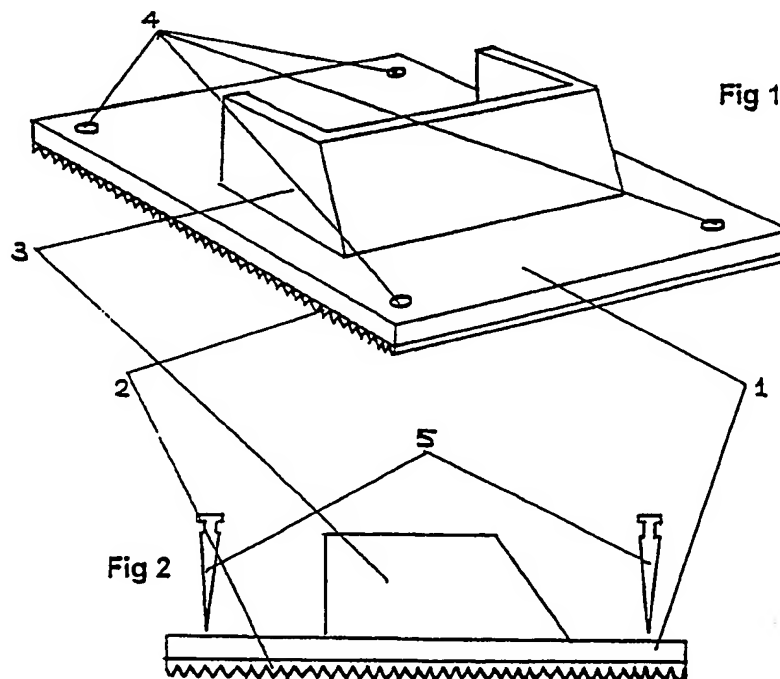
GB 2272475 A GB 2216168 A GB 2160570 A
GB 2057040 A US 5078231 A
"Do It Yourself" magazine, July 1970, page 83

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UK CL (Edition M) E1S SLW2
INT CL⁵ E06C

(54) Ladder support

(57) A ladder support comprises a base plate (1) with a three sided frame (3) and a non slip base (2) for use when using a ladder. When a ladder is to be used the plate is placed with the open side of the three sided frame (3) facing the surface upon which the top of the ladder is to be rested. The ladder is then inserted and rested on the surface. Pins (5) can be inserted into soft surfaces, such as lawns, through holes in the base plate (4). When the ladder has to be moved it can be removed from the three sided frame and the plate repositioned.



LADDER SAFETY PLATE

This invention relates to a ladder safety plate.

Ladders are commonplace and can be placed on a variety of surfaces. Moreover when placed on a lawn surface damage can be caused when the ladder legs sink into soft ground. Moreover ladders often necessitate a helper to steady the ladder and prevent the ladder slipping at the base.

According to the invention outlined herein there is provided a ladder safety plate comprising a rectangular plate with a non slip base, three sided frame to retain ladder legs and four pins provided to be inserted, when base is placed on a soft surface, through holes located one in each corner of the base plate. Said pins with raised heads for ease of extraction.

A specific embodiment will now be described by way of example with reference to the accompanying drawings in which:-

Figure 1 Shows in perspective, the base retaining plate.

Figure 2 Shows a side view with retaining pins shown.

Figure 3 Shows a cross section of the safety plate with raised head pins inserted.

Figure 4 Shows the retaining plate with pins inserted and ladder inserted.

Referring to the drawing the safety plate comprises a base rectangular plate (1) with a non slip lower surface (2). The plate has a three sided frame (3) attached or as an integral part of the base. The base has a hole in each corner (4) through which pins (5) may be inserted.

The ladder safety plate would be placed near a surface against which a ladder is to be rested with the open side of the three sided frame (3) facing the surface. A ladder is then placed inside the three sided frame and rested against the surface as shown in Figure 4. The three sided frame (3) reduces any side to side or backward movement of the ladder. The plate would distribute the weight of the ladder and the non slip base would increase the traction. If the surface on which the plate is soft then the pins (5) can be inserted through the holes in the plate (4) and into the soft surface reducing movement of the plate and decreasing damage to soft surface. To reposition the ladder simply remove it from the plate, reposition the plate and reinsert the ladder as described above.

2
CLAIMS

(1) A ladder safety plate comprising a rectangular plate with a non slip base, three sided frame to retain ladder legs and four pins provided to be inserted, when base is placed on a soft surface, through holes located one in each corner of the base plate. Said pins with raised heads for ease of extraction.

(2) A ladder safety plate as claimed in Claim 1 wherein the three sided frame prevents side to side and backward movement of a ladder when inserted into the frame.

(3) A ladder safety plate as claimed in Claim 1 wherein the non slip base provides traction between the ladder and the surface on which the safety plate is resting.

(The Search report)

-3-

Relevant Technical Fields

Search Examiner
D J LOVELL

(i) UK Cl (Ed.M) E1S (SLW2)

(ii) Int Cl (Ed.5) E06C

Date of completion of Search
7 OCTOBER 1994

Databases (see below)

(i) UK Patent Office collections of GB, EP, WO and US patent specifications.

Documents considered relevant
following a search in respect of
Claims :-
1-3

(ii)

Categories of documents

- X: Document indicating lack of novelty or of inventive step. P: Document published on or after the declared priority date but before the filing date of the present application.
- Y: Document indicating lack of inventive step if combined with one or more other documents of the same category. E: Patent document published on or after, but with priority date earlier than, the filing date of the present application.
- A: Document indicating technological background and/or state of the art. &: Member of the same patent family; corresponding document.


Category	Identity of document and relevant passages	Relevant to claim(s)
E,A	GB 2272475 A (BLUD)	
Y	GB 2216168 A (WEATHERALL)	1
Y	GB 2160570 A (CRABBE) note Figure 4	1
Y	GB 2057040 A (SHAYNE)	1
Y	US 5078231 (DAVIS) note pins 22	1
Y	"Do it yourself" magazine, July 1970, page 83	1

Databases: The UK Patent Office database comprises classified collections of GB, EP, WO and US patent specifications as outlined periodically in the Official Journal (Patents). The on-line databases considered for search are also listed periodically in the Official Journal (Patents).






Stair-ladder platform

Patent number: EP0745753
Publication date: 1996-12-04
Inventor: SANDHAM JOHN MICHAEL (GB); LEWIS STANLEY TREVOR (GB)
Applicant: SANDHAM JOHN MICHAEL (GB); LEWIS STANLEY TREVOR (GB)
Classification:
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 - european: E06C7/44
Application number: EP19960303860 19960529
Priority number(s): CA19972201270 19970327; GB19950010872 19950530; GB19950026410 19951222

Also published as:

 EP0745753 (B1)

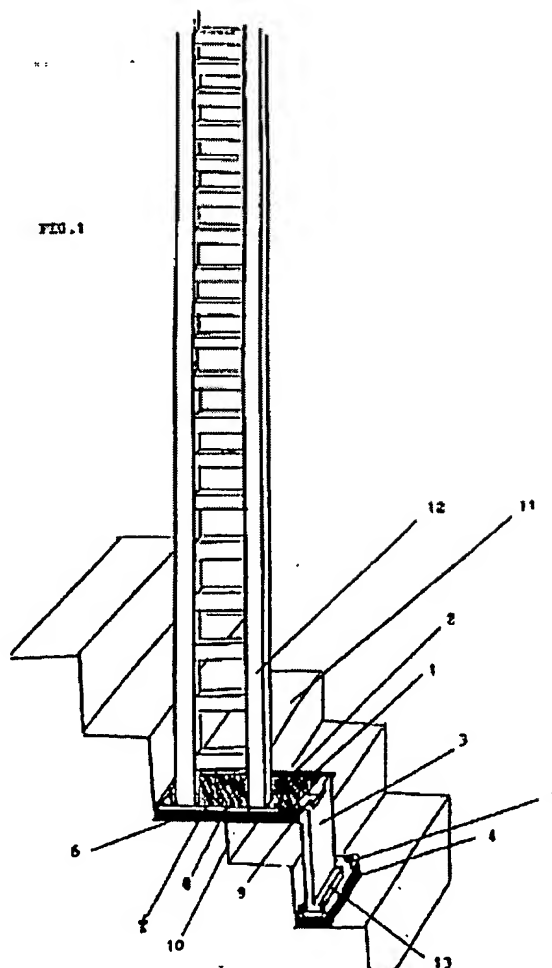
Cited documents:

 GB2208172
 US5029671
 GB2142965
 FR2663075
 EP0144471
 more >>

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Abstract of EP0745753

A portable stair-ladder platform comprising a ladder support platform (1) and a support member (3,21,41,59,75,85) pivotally attached to the platform by a pivotal coupling (9,84,86), the parts being arranged such that, when assembled and in use with the ladder support platform (1) substantially horizontal and the support member (3,21,41,59,75,85) substantially vertical, an upwardly-facing surface area of the support member (3,21,41,59,75,85) abuts a downwardly-facing surface area of the ladder support platform (1), the pivotal coupling (9,84,86) and the surface areas being arranged to tend to maintain substantially a right angle between the abutting parts even when weight is applied to the ladder support platform (1), and the pivotal coupling (9,84,86) being such as to prevent pivoting of the support member (3,21,41,59,75,85) substantially beyond the vertical in that angular direction which is towards the underside of the ladder support platform (1) but whilst allowing pivoting of the support member (3,21,41,59,75,85) in the other direction so as to allow the device to be collapsed for transportation or storage.



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